Seismic Observation of Sri Lanka

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Geological Survey & Mines Bureau (GSMB) is the sole mandated institute on earthquake monitoring and seismogenic tsunami monitoring. GSMB is now starting monitoring seismic activities and analyzing real time data gathered from existing seismic stations to avoid any future disasters by giving early warnings and also to encourage the geological and crustal studies within this region for the short and long term disaster mitigation goals.

The seismic network consists of three broadband stations including one station from Project IDA/IRIS network and other two from GEOFON seismic network. These three seismic stations have been maintained by GSMB with the assistance of their parent networks (Figure 1).

![Figure 1. Seismic Network maintained by GSMB.](image)

Two GEOFON stations, MALK (Mahakanadara) and HALK (Hakmana) were installed by GFZ under GITEWS in year 2010. All three stations share data with other countries and GSMB is able to receive the data from other stations at these two seismic networks IRIS and GEOFON.
University Seismic Network which is maintained by University of Peradeniya as a central station and consists of four other seismic stations such as University of Ruhun-Matara, University of Rajarata-Mihintale and Eastern University-Oluwil (Figure 2). Each station is equipped with Short period seismometer (GS-1), Force balance servo Accelerometer (Episensor), Data logger (K2) and relevant infrastructure facilities. This seismic network was installed in year 2003 and funded by JICA.

![Figure 2. Local Seismic Network maintained by University of Peradeniya](image)

This system, which has been now out of order, should be re activated if possible. A detailed study has been carried out by JICA with local partners to find the issues of re establishing of the stations and communication system. However, the administration of the network still is under the University of Peradeniya. GSMB would like to take over the responsibility of re installation and maintaining of the network if the original funding agencies are agreed.